

Operations Videos

➔ *Includes a handout*

The following VCR tapes are available to any resident of the state of Nebraska from the Lincoln FSDO, 3431 Aviation Road, Suite 120, Lincoln, NE 68524. Please stop by, call (402) 475-1738, or [email](#).

AERIAL APPLICATOR'S GROWING ROLE IN THE PRODUCTION OF SAFE FOOD - **#3** - 30 min (2 copies) Self-explanatory. A lot of good footage showing Ag operators at work. Excellent for school groups, community events, etc.

AEROMEDICAL FACTORS - **#4** - 30 min (2 copies)

Reviews medical factors that can affect a pilot's performance - vision, night-flying, hypoxia, over-the-counter drugs, and other physiological factors for which pilots should be alert.

AIR COLLISION AVOIDANCE TRAINING - **#7** - 30 min

Reviews basic aviation skills such as scanning, interrelationship between the pilot/controller, and areas where the potential mid-air are the greatest. Excellent for brushing up on your pilot/controller talk and how to use flight following. **CAUTION:** This video uses the **OLD** airspace terms such as control zones and airport traffic areas, but is good for seeing how the airspace system works.

AIRCRAFT FLIGHT LINE SERVICE - **#87** - 1 copy

AIRCRAFT ICING - **#8** - 31 min

Explains the many dangers of aircraft icing to a pilot. Excellent descriptions on how airframe icing forms, different types of icing, etc.

AIRCRAFT SURFACE MOVEMENT - **#9** - 25 min

The FAA is going to considerable time and expense to standardize airport signs at the larger airports. This video shows how the new signs look and explains the purpose for each one. If you fly into the larger air carrier airports, reviewing this video will really help you.

AIRPORT SELF-INSPECTION - **#11** - 45 min

A good film for airport managers. Outlines inspection procedures and deficient items to look for.

➔ AIRPORT SIGNS, MARKINGS, AND PROCEDURES - **#49** (4 copies) - 35 min

This video will assist the audience in clearly recognizing and understanding the signs and markings used on airports in the United States today. In addition, this video provides pilots and others operating on the surface of airports, with procedures that are essential in avoiding runway incursions.

AIRSPACE RECLASSIFICATION - **#12** - 14 min

This video explains the basics of the United States airspace. It reviews important features of the airspace system and explains the new alphabetical classes of airspace, class A, class B, etc.

AOPA'S AIRPORT WATCH PROGRAM - **#94** - 19 min (2 copies)

Through dramatizations, we'll demonstrate unusual activity you should be suspicious of. And we'll recommend the appropriate response. We'll also suggest safety measures pilots might take – from prop locks to throttle locks – to guard airport and aircraft from terrorists or thieves.

ASOS/AWOS - **#13** - 13 min (3 copies)

This video describes the capabilities and limitations of Automated Weather Observing Systems (AWOS) and Automated Surface Observing Systems (ASOS) and gives suggestions for getting the most out of these automated systems.

AUTOMATED FLIGHT SERVICE STATION - #14 - 20 min

Explains how to deal with an AFSS and the many services they provide.

AVIATION PHYSIOLOGY - #2 - (2 copies)

Physics of the atmosphere - Respiration and circulation - Trapped gas - Altitude induced decompression sickness - flying and hypoxia - Hyperventilation - self-imposed stress and aviation - Cabin pressurization - Aviation oxygen equipment - Spatial distortion - Fit for flight - Motion sickness and aviation. (comes with CD-ROM Power Point Presentation)

AVOIDING THE INADVERTENT SPIN - #44 - 26 min

This video focuses on the cues available to the pilot in advance of entry into an inadvertent spin.

BASIC AVIATION WEATHER - #15 - 30 min

BASIC FUEL MANAGEMENT - # 16 - 25 min

An excellent review on aircraft fuel systems, types of aviation fuel, and pointers on how to compute fuel consumption on your aircraft.

BASIC MICROWAVE LANDING SYSTEM OPERATION - #17

BIRD AIR STRIKE HAZARD/BASH LOW LEVEL - #92 – 12 min/12 min

CAMI: A NATIONAL RESOURCE INTO THE 21ST CENTURY - #18 - 23 min

CFIT (CONTROLLED FLIGHT INTO TERRAIN) AWARENESS AND PREVENTION - #19 - 30 min

CFIT refers to the all-too-common practice of perfectly good aircraft being flown into the terrain or water with no prior awareness on the part of the crew of impending disaster. This video, produced by the AOPA Air Safety Foundation, examines the problem, analyzes three actual CFIT cases, and offers techniques that pilots and flight departments can use to help reduce the CFIT risk.

COCKPIT RESOURCE MANAGEMENT - #20 - 23 min (3 copies)

Presents an overview of cockpit/crew resource management and how it can be applied to general aviation. The video used the United 232 crash at Sioux City, IA as an example of how a crew working together saved more than half the passengers on board a DC-10 when the failure of the rear engine severed the hydraulic supply lines to the controls. Discusses human error and how resource management can break the "chain."

→ DRIVING ON THE AIRPORT OPERATIONS AREA - #83 - (1 copy)

Training video designed to raise the awareness of vehicle operators to airfield safety concerns.

EMERGENCY RESPONSE TO PESTICIDE SPILL ACCIDENTS - #82 - (1 copy)

→ FATIGUE BUSTERS - #21 - 1:15 Min (2 copies)

Fatigue is one of the most frequent complaints heard today. This video addresses the common causes of fatigue, shows exciting new research, and how fatigue affects your job, safety, your social and emotional interactions, and your family.

→ FIRST RESPONDERS- When seconds count - #39 - 23 min (3 copies)

This video is intended primarily for first responders or those responsible for planning emergency responses. This program addresses the actions appropriate for crashes that happen in rural or remote areas. It stresses the importance of having a planned response that includes special considerations such as the type of aircraft, the location of the crash, and hazardous materials concerns.

FLIGHT REVIEW, THE - #22 - 38 min

Pilots and CFIs will find this video useful to prepare for the flight review. However, a review of current regulations is also required as things change often and fast.

→ FLYING FOR SKYDIVE OPERATIONS - #74 - 34 min

This video is designed to raise awareness of safety and operational practices needed for pilot jumping. Attention is given to takeoff techniques with the additional weight and balance issues, the safe loading and unloading of jumpers, drop zone safety requirements, landing techniques and refueling.

FLYING FRIENDLY - #23 - 20 Min

Aircraft noise: How pilots can help airports and communities to learn together.

→ FLYING IN FLAT LIGHT & WHITE OUT CONDITIONS - #85

Addresses the concept of flying in unusual weather phenomena, in particular flat light and white out conditions.

FLYING IN SOUTHEAST ALASKA - #72 - 53min

This video visits many of the prominent airports in Southeast Alaska, detailing local geography and weather conditions. Shot from the pilot's point of view, this program integrates charts and actual footage of checkpoints to help prepare pilots for the excitement and challenge of flying in Southeast Alaska.

FRIENDLY FLIGHT PATHS - #24 - 30 min (2 copies)

This video defines the problem of noise and nuisance flights over parks and wildlife areas and how to be a good neighbor while flying.

→ FUEL AWARENESS - #84 - (2 copies)

Demonstrates that aircraft fuel is absolutely indispensable. Explains the how, when, where, & why of proper fueling.

FUEL SMARTS - #25 - 11 min (3 copies)

Common fuel problems - water in fuel, auto fuel, misfueling. Reviews how pilot should manage fuel responsibilities.

GPS: TOMORROW IS TODAY - #26 - 40 min (2 copies)

Another video explaining GPS.

HOT AIR BALLOON PILOT DECISION MAKING: Aircraft & Equipment Preflight - #80 (2 copies)

ICING FOR GENERAL AVIATION PILOTS - #89 - 55 min

Practical information to help pilots avoid ice, detect ice, minimize exposure, and safely exit icing conditions during each phase of flight. The effects of icing on aircraft performance, control (wing and tail stalls) and recovery procedures are also covered.

ICING FOR REGIONAL & CORPORATE PILOTS - #91 - 38 min

This training video is intended for pilots of turboprop aircraft. It discusses ice protection systems, how ice accretes on the aircraft and the symptoms thereof, the effects of ice on both the performance degradation and handling qualities, suggested recovery techniques from roll or pitch upset and finally, the hazard of Super cooled Large Droplets (SLD)

ILS PRM APPROACHES - #77 - 16 min (3 copies)

IT'S YOUR DECISION AND RISKY BUSINESS - #29 - 30 min

Produced by Transport Canada, this video explains pilot decision making, judgment, attitudes toward safety and cockpit resource management.

→ LAND SURVIVAL - ARE YOU PREPARED? - #69 - 46min (2 copies)

This video explores Search & Rescue efforts; items to keep in an on board survival kit; pro's and con's of actions taken if your aircraft goes down; learning survival priorities - medical responses, water/food resources, preparing shelter, signaling techniques and the importance of maintaining the right attitude.

LORAN-C - #30 - 15 min (3 copies)

Provides good information on how the LORAN system works and some of the advantages/disadvantages of the LORAN system. Emphasizes that you fully understand the owner's manual on your LORAN system and that you use it fully understanding any restrictions placed on your particular LORAN.

LOSS OF CONTROL : AVOIDING AIRCRAFT UPSETS! - #59 - 20 min (2 copies)

This video deals with aircraft upset scenarios and recovery training. The three scenarios are 1) the Botched Turn 2) Icing and 3) Wake turbulence.

MAKING YOUR OWN RULES - DEVELOPING YOUR PERSONAL MINIMUMS CHECKLIST FOR REAL WORLD FLYING - #64 - 27 MIN (3 copies)

This video, along with sample personal minimums checklists, emphasizes the importance of preflight and in-flight planning and decision-making, and provides the pilot with the knowledge to complete safer, less stressful flights.

METAR/TAF - #31 - 10 min (3 copies)

Just as the United States changed its airspace classes to conform to international standards, the format of certain weather products will be modified to meet a new global standard. The changes affect only surface observations and terminal forecasts, which will become known as METAR/TAFs. If you use DUATS, you should look at this video.

MID-AIR COLLISION AVOIDANCE - #32 - 30 min(2 copies)

Learn about how to avoid a midair collision by knowing the limitations of the human eye and understanding collision avoidance methods. Learn effective scanning techniques as you explore the factors and situations that lead to midair collisions.

MID-AIR COLLISION PROBLEM, THE - #33 - 17 min (2 copies)

Part of the Back to Basics series - reviews scanning procedures - "SEEN AND BE SEEN." Points out areas where pilots are most susceptible to mid-air.

MISSION: SAFE FLIGHT - #5 - 19 min (2 copies)

Defines the FAA safety education and outreach vehicle, the Aviation Safety Program. This informative video explains FAA's role in safety and its emphasis on voluntary compliance and partnership with the aviation industry.

→ MOUNTAIN FLYING - #35 - 20 min

Flying in the mountains presents its own unique challenges and rewards. This video provides information and techniques for flying in the mountains and how to avoid the associated hazards. This video can be used as an introduction to mountain flying before you get a checkout, or just as a review to broaden your knowledge of different types of flying.

ON LANDINGS, PARTS I, II, AND III - #36 - (All three videos are about an hour total) (2 copies)

A three tape video on landings. Tell you just about everything you ever wanted to know about landing an airplane. Very informative.

→ OPERATIONS AT TOWERED AIRPORTS - #68 - 26 min (2 copies)

This program stresses prevention of runway incursions by helping General Aviation pilots become familiar with operations at towered airports.

→ PASSENGER BRIEFING VIDEOS FOR HELICOPTER OPERATIONS - #60 - 7 min (2 copies)

The purpose of this video is to provide suggested guidelines to private passenger carrying helicopter operators who desire to produce their own passenger briefing video.

PILOT DECISION MAKING - #37 - 10 min (2 copies)

Deals with the psychological problems encountered by general aviation pilots.

PILOT OPERATIONS AT NON-TOWERED AIRPORTS - #38 - 20 min (2 copies)

Covers all aspects of flying at non-towered airports, including CTAF radio procedures, FAA regulations on right-of-way and traffic patterns, midair collision avoidance procedures, traffic pattern hazards and airport courtesy.

→ PILOT OPERATIONS AT TOWERED AIRPORTS & AIRPORT SIGNS, MARKINGS, AND PROCEDURES - YOUR GUIDE TO AVOIDING A RUNWAY INCURSION - #88 - 2 copies.

→ PRESSURE POINTS - COMMERCIAL HELICOPTER PILOT DECISION MAKING - #86 (2 copies)

This video was developed to highlight the many direct, indirect, and internal pressures that cause commercial helicopter pilots to accept a flight, or continue a flight already in progress under unsafe conditions. (Hand out)

→ PRESSURE POINTS - AEROMEDICAL HELICOPTER PILOT DECISION MAKING - #34 21 min (2 copies)

This video was developed to highlight the many direct, indirect, and internal pressures that cause aeromedical helicopter pilots to accept a flight, or continue a flight already in progress under unsafe conditions. (Hand out)

→ PRESSURE POINTS - DECISION MAKING IN COMMERCIAL FLIGHT OPERATIONS - #28 29 min (2 copies)

This video was developed to highlight the many direct, indirect, and internal pressures that cause commercial pilots to accept a flight, or continue a flight already in progress under unsafe conditions. (Hand out)

→ PRESSURE POINTS – GENERAL AVIATION PILOT DECISION MAKING - #90 – 17 min (2 copies)

This video was developed to highlight the many direct, indirect, and internal pressures that may cause general aviation pilots to begin a flight, or continue a flight already in progress under unsafe conditions. (Hand out)

QUEST FOR SAFER SKIES! - #75 - 15min

This video highlights the mission of the FAA's Flight Standards Service. It answers the question, "What do you do, anyway?" that many people or groups ask of our employees.

→ RUNWAY INCURSIONS - #40 - 10 min

Emphasizes how to avoid runway incursions. Addresses ground vehicles, airplanes, and complying with controllers' instructions.

RUNWAY SAFETY - #73 - 26 min (4 copies)

Four segments are designed to "trigger" an interactive discussion with a live audience. The audience will be able to determine what went right and also what went wrong in each scenario, and be able to discuss recommendations for pilot/controller behavioral changes that can prevent future incidents or accidents.

RUNWAY INCURSIONS, THE UNSEEN DANGER - #41 - 12 min

Runway incursions continue to plague pilots and ATC Controllers. This video provides some insight into the dangers of runway incursions and how they can be prevented.

SAFE FLYING IN SPECIAL USE AND OTHER AIRSPACE - #42 - 13 min (3 copies)

Explains MOA's prohibited areas, restricted areas, military training routes and other forms of special use airspace and how they affect the general aviation pilot and what actions he/she should take.

SAMURAI AIRMANSHIP - #43 - 55 Min (2 copies)

An educational and entertaining video by Rod Machado, professional speaker, humorist, educator, and flight instructor. "Bushido" - a well defined code of conduct that can save your life. (NOTE: I HAVE SEEN ONE OF MR. MACHADO'S PRESENTATIONS IN PERSON AND HE IS VERY GOOD WITH A LOT OF

SAFETY IDEAS. WELL WORTH VIEWING - LARRY CRAIG - SPM Retired)

SCENE LANDING ZONE SAFETY FOR HELICOPTERS - #76 - 20min (4 copies)

Intended primarily for first responder EMS, fire or law enforcement departments, this video will describe how to prepare for the safe arrival, handling, and departure of the EMS helicopter. Any organization who operates helicopters that must respond to scene requests or any agency that is responsible for requesting medical helicopter services at a scene location will find a wealth of information on how to effectively carry out this operation while keeping safety first.

SEAPLANE SAFETY - IT'S A SHARED RESPONSIBILITY - #61 - 12 min (2 copies)

Narrated by renown float expert, J. J. Frey. This video produced with the assistance of the Seaplane Pilots Association, provides information for both seaplane pilots and boaters who share the same water.

SEAPLANE SAFETY - LICENSE TO LEARN - #63 - 16 min (2 copies)

Produced by the Ministry of Transport, Transport Canada, outlines safety issues facing Canadian seaplane pilots. However, the safety problems discussed in this video by veteran seaplane and bush pilots are topical to operations in the United States. (Used in conjunction with "Seaplane Safety - It's a Shared Responsibility" and "Seaplane Safety - What Every Passenger Needs to Know".

SEAPLANE SAFETY - WHAT EVERY PASSENGER NEEDS TO KNOW - #62 - 8 MIN (2 copies)

Excellent pre-flight passenger briefing for seaplane operators. This video provides an overview on donning and use of life jackets, location and use of fire extinguishers, locations and use of survival gear, as well as docking and operations around docking facilities are covered.

→ SHOULDER HARNESSES AND YOUR LIFE - #81 (2 copies)

SINGLE PILOT IFR - #45 - 30 min (3 copies)

Addresses the way a single pilot flying IFR can cope more effectively, while lowering stress and workload. Learn what cockpit resource management means to the general aviation pilot.

SKYDIVING AND PARACHUTE OPERATIONS - #71 - 20min

This unique program is designed to help general aviation pilots and airport managers become more familiar with Skydiving and Parachute Operations.

SLAY THAT FIREBREATHER - #46 - 110 min

Engine familiarization for Pilots. To see it being assembled is to understand. For those folks that like to get into the intricate details of your piston airplane engine.

STALLS/SPINS: CLASSIC FACTS AND MYTHS - #47 - 22 min (2 copies)

More good information on stalls/spins.

STORM AVOIDANCE EQUIPMENT - IT'S YOUR CHOICE - #67 - 24 min (2 copies)

This video explains how both radar and spherics (Strike Finder and Stormscope) equipment works and what they will and will not provide for the pilot in thunderstorm areas.

STRATEGY OF AVOIDANCE - #48 - 19 min

A review of how thunderstorms form and their associated hazards. Provides clues pilots can look for to avoid convective weather. Also reviews micro bursts.

TAILPLANE ICING - #6 - 23 min

To provide information about ice contaminated horizontal stabilizers. This video presents a physical description of the tailplane icing problem, symptoms of ice contamination, and suggested recovery procedures.

TAKEOFF SAFETY TRAINING AID - #65 - 20 min

This training aid, along with the 20 minute video titled "Rejected Takeoff and the Go/No Go Decision Flight Crew Briefing," will increase aircrew knowledge in coping with this very critical procedure.

TAKEOFFS AND LANDINGS MADE EASY - **#50** - 30 min

A King Accelerated Ground Schools video on the finer techniques of the various types of takeoffs and landings required for pilot certification. A lot of footage taken in the airplane actually accomplishing crosswind, short and soft field takeoffs and landings. A must for the student pilot and an excellent review for the certificated pilot.

TEN KNOTS FOR MOM AND THE KIDS - **#51** - 13 min

The FAA is deploying terminal Doppler weather radar (TDWR) systems at major airports. The TDWR will be used to issue windshear warnings to pilots. These warnings will be runway specific and will have a different format from the current windshear warnings. Describes TDWR & discusses the warning format.

THE 17 MOST POPULAR WAYS TO FALL OUT OF THE SKY (And how to avoid them) - **#79**

Focuses on the primary causes of accidents according to NTSB statistics. This video creates the flight situation and illustrates how human factors influence the decision making process, contribute to pilot error, and cause an accident.

THE CAMI STORY - **#52** - 22 min

Provides a good description of the services the Civil Aeromedical Institute (CAMI) provides for airmen and the aviation community. Describes such efforts CAMI is involved in such as accident survivability, etc.

THE DAY ALL HELL BROKE LOOSE - **#53** - 20 min (2 copies)

An excellent video on wind shear and micro bursts. Provides a very interesting narrative as an especially hazardous day at Denver, Colorado, and how several United Air Lines crews handled the situation.

THE PILOT'S WEATHER SERIES - A three-videotape series on acquisition and evaluation of weather information, flight planning, and weather-related decision making (all on one tape).

Weather, Flight Planning & the Pilot - **#54A** - 46 min

Teaches how to choose the weather briefings that meet individual pilot's needs and how to accurately record and evaluate weather information.

Go/No-Go Weather Decisions - **#54B** - 39 min

Gives the pilot the ability to visualize the weather along the route and enhances decision-making skills with special emphasis on pilot judgment.

Evaluating In-Flight Weather - **#54C** - 29 min (2 copies)

Simplifies receiving and recording aviation weather broadcasts in-flight, enables pilots to decide confidently, not guess whether to continue on course, land short or divert.

THE TERRIBLE TRUTH ABOUT WIRESTRIKES - **#55** - 30 Min (2 copies)

A excellent analysis of the wirestrike problem, by both fixed wing and rotorcraft, and techniques on how to avoid this very serious cause of accidents.

→ TIPS ON MOUNTAIN FLYING - **#70** - 23min (2 copies)

This video is focused on mountain flying aircraft operation. Participation in this program provides the pilot with an overview of the skills and knowledge they will need to develop to fly safely in the mountains. The video includes basic flight planning processes, aircraft performance reductions, weather hazards, and other mountain flying considerations.

TURBULENCE - **#66** - 25 min (Notebook)

This video, along with a training aid handbook, provides guidance for operators to develop effective turbulence training programs. It describes the different levels of turbulence and what actions should be taken for each level.

ULTRALIGHT OPERATIONS & MAINTENANCE - **#78** - 25 min

FAA Aviation Safety Inspector Wally Bevan walks operators through proper maintenance and preflight procedures for their ultralight vehicles. Inspector Bevan explains the provisions of FAR 103 as it relates to ultralight operations, and instructs the viewer on approved techniques and procedures for keeping an ultralight vehicle in a safe operating condition.

UPS & DOWNS - #93 – 60 min

Pilots think they know takeoffs and landings, but the accident statistics prove otherwise. Topics featured in this video include: Short and soft field operations; crosswind operations; climb out performance; night operations; POH performance specifications; how density altitude can leave your aircraft breathless; and the 50/50 solution.

WAKE TURBULENCE AVOIDANCE-A PILOT AND AIR TRAFFIC CONTROLLER BRIEFING - #56 - (2copies) (NOTEBOOK/CD)

This video, along with a training aid workbook, will enhance wake turbulence training for both pilots and air traffic controllers. It presents a comprehensive discussion of the characteristics of this hazard.

→ WATER SURVIVAL: THE SKILLS YOU NEVER WANT TO USE - #27 - 25:30 min (2 copies)

This video explores ways to successfully "ditch" an aircraft; the importance of filing a flight plan; emergencies when flying alone vs with a crew and passengers. Also featured is a list of items to include in a "ditch kit". This video examines the reality of being rescued and what it takes to be a survivor.

WHY AIRPLANES CRASH - #57 - 50 min

Taped from the TV program "NOVA." Deals primarily with airline accidents, their causes, pilot errors, etc. Very interesting for the general aviation pilot.

→ YOUR PERSONAL FLIGHT - #58 - 26 min (2 copies)

One Video, three parts, produced by the FAA's Civil Aeromedical Institute (CAMI). Explores such critical factors as stress, heat, dehydration, alcohol consumption, flying with a cold, sinus blockage, etc., all medical factors which should be taken into consideration before flying.